IN THE CLAIMS:

Original claims 1-29 were amended during Chapter II proceedings by substituting new claims 1-29 in a letter dated February 4, 2001. Please cancel original claims 1-29 and cancel amended claims 1-29 and rewrite them as new claims 30-61 as follows:

- 30. A method for conveying resistance to beet necrotic yellow vein virus (BNYVV) to a sugar beet plant, comprising the following steps:
- (a) preparing a DNA fragment of at least 15 nucleotides in a sequence that is at least 70% homologous to the corresponding nucleotide sequence of the genomic RNA 1 of the beet necrotic yellow vein virus (BNYVV);
- (b) introducing said DNA fragment, operatively linked to a promoter that is active in sugar beet plants, into a sugar beet plant cell to obtain a transformed sugar beet cell; and
- (c) regenerating a transgenic sugar beet plant from the transformed sugar beet plant cell.
- 31. The method as claimed in claim 30, wherein the DNA fragment is at least 80% homologous to the corresponding nucleotide sequence of the genomic RNA 1 of said virus.

32. The method according to claim 30, wherein the fragment has a nucleic acid sequence that corresponds with the homology indicated in claim 30 to nucleotides 153 to 3258 of RNA 1 of said virus.

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33. The method according to claim 30, wherein the fragment has a nucleic acid sequence that corresponds with the homology indicated in claim 30 to nucleotides 169 to 539 of RNA 1 of said virus.

34. The method according to claim 30, wherein the fragment has a nucleic acid sequence that corresponds with the homology indicated in claim 30 to nucleotides 1226 to 1683 of RNA 1 of said virus.

- 35. The method according to claim 30, wherein the fragment has a nucleic acid sequence that corresponds with the homology indicated in claim 30 to nucleotides 2754 to 3192 of RNA 1 of said virus.
- 36. The method according to claim 30, wherein the fragment consists of 6746 nucleotides.
- 37. The method as claimed in claim 30, wherein the fragment is introduced into the cell by means of a DNA vector harboring the fragment and transcription and translation regulatory sequences operably linked therewith.

38. A transformation vector for conveying resistance to BNYVV to a plant, harboring a fragment of at least 15 nucleotides in a sequence that is at least 70% homologous to the corresponding nucleotide sequence of the genomic RNA 1 of said virus, and transcription and translation regulatory sequences operably linked therewith.

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- 39. The vector as claimed in claim 38, wherein the fragment is at least 80% homologous to the corresponding nucleotide sequence of the genomic RNA 1 of said virus.
- 40. The vector according to claim 38, wherein the fragment has a nucleic acid sequence that corresponds with the homology indicated in claim 38 to nucleotides 153 to 3258 of RNA 1 of said virus.
- 41. The vector according to claim 38, wherein the fragment has a nucleic acid sequence that corresponds with the homology indicated in claim 38 to nucleotides 169 to 539 of RNA 1 of said virus.
- 42. The vector according to claim 38, wherein the fragment has a nucleic acid sequence that corresponds with the homology indicated in claim 38 to nucleotides 1226 to 1683 of RNA 1 of said virus.
- 43. The vector according to claim 38, wherein the fragment has a nucleic acid sequence that corresponds with the homology indicated in claim 38 to nucleotides 2754 to 3192 of RNA 1 of said virus.

- 44. The vector according to claim 38, wherein the fragment consists of 6746 nucleotides.
- 45. A plant cell, exhibiting a resistance to BNYVV, comprising in its genome a DNA fragment of at least 15 nucleotides in a sequence which is at least 70% homologous to the corresponding nucleotide sequence of the genomic RNA 1 of said virus.
- 46. The plant cell as claimed in claim 45, wherein the fragment is at least 80% homologous to the corresponding nucleotide sequence of the genomic RNA 1 of said virus.
- 47. The plant cell according to claim 45, wherein the fragment has a nucleic acid sequence that corresponds with the homology indicated in claim 45 to nucleotides 153 to 3258 of RNA 1 of said virus.
- 48. The plant cell according to claim 45, wherein the fragment has a nucleic acid sequence that corresponds with the homology indicated in claim 45 to nucleotides 169 to 539 of RNA 1 of said virus.
- 49. The plant cell according to claim 45, wherein the fragment has a nucleic acid sequence that corresponds with the homology indicated in claim 45 to nucleotides 1226 to 1683 of RNA 1 of said virus.

- 50. The plant cell according to claim 45, wherein the fragment has a nucleic acid sequence that corresponds with the homology indicated in claim 45 to nucleotides 2754 to 3192 of RNA 1 of said virus.
- The plant cell according to claim 45, wherein the fragment consists of 6746 nucleotides.
- 52. The plant cell as claimed in claim 45 being part of a sugar beet plant that is resistant against BNYVV.
- 53. A method for the production of a sugar beet plant that is resistant against BNYVV comprising regeneration from a plant cell as claimed in claim 45.
- 54. A sugar beet plant, exhibiting a resistance to BNYVV, consisting at least partly of plant cells as claimed in claim 45.
 - 55. A progeny of sugar beet plant as claimed in claim 54.
 - 56. Seeds of a sugar beet plant as claimed in claim 54.
- 57. Vegetatively reproducible structures from a plant according to claim 54.